



SEQUENCE LISTING

<110> Arthur B. Raitano
Daniel E.H. Afar
Aya Jakobovits
Mary Faris
Rene S. Hubert
Steve Chappell Mitchell
Douglas C. Saffran

<120> NOVEL G PROTEIN-COUPLED RECEPTOR
UP-REGULATED IN PROSTATE CANCER AND USES THEREOF

<130> 511582002410

<140> US 10/017,066

<141> 2001-12-14

<150> US 09/680,728

<150> 2000-10-05

<150> 60/157,902

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<213> Homo Sapiens

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Phe Ile Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu	
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gcc ttc cca ttg tgc tcc ctc tac ctt att gct gtg cta ggt aac ttg	267
Ala Phe Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu	
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aca atc atc tac att gtg cgg act gag cac agc ctg cat gag ccc atg	315
Thr Ile Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met	
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Tyr Ile Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr	
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tca tcc atg ccc aaa atg ctg gcc atc ttc tgg ttc aat tcc act acc	411
Ser Ser Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr	
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atc cag ttt gat gct tgt ctg cta cag att ttt gcc atc cac tcc tta	459
Ile Gln Phe Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu	
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tct ggc atg gaa tcc aca gtg ctg ctg gcc atg gct ttt gac cgc tat	507
Ser Gly Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr	
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Arg Val Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu	
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Asn Ile Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu	
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Ala Cys Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile	
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Ile Ser Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu	
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 Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile Phe
 50 55 60

Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser Met
 65 70 75 80
 Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe
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 Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu Ser Gly Met
 100 105 110
 Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val Thr
 130 135 140
 Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala Pro
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 Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu
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 Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp
 180 185 190
 Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser Ala
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 Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile Leu
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 Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe Gly
 225 230 235 240
 Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro Phe
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 Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser Pro
 260 265 270
 Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val Leu
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 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
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 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
 65 70 75 80
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Thr Phe Asp Ala Cys
 85 90 95
 Leu Ala Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
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 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
 115 120 125
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Val Gln Ile Gly
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Pro	Asn	Val	Val	Tyr	Gly	Leu	Thr	Ala	Ile	Leu	Leu	Val	Met	Gly	Val
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Asp	Val	Met	Phe	Ile	Ser	Leu	Ser	Tyr	Phe	Leu	Ile	Ile	Arg	Ala	Val
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Leu	Gln	Leu	Pro	Ser	Lys	Ser	Glu	Arg	Ala	Lys	Ala	Phe	Gly	Thr	Cys
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Val	Ser	His	Ile	Gly	Val	Val	Leu	Ala	Phe	Tyr	Val	Pro	Leu	Ile	Gly
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Leu	Ser	Val	Val	His	Arg	Phe	Gly	Asn	Ser	Leu	Asp	Pro	Ile	Val	His
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Val	Leu	Met	Gly	Asp	Val	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Ile	Asn	Pro
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Ile	Ile	Tyr	Gly	Ala	Lys	Thr	Lys	Gln	Ile	Arg	Thr	Arg	Val	Leu	Ala
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Arg	Thr	Glu	Arg	Ser	Leu	His	Ala	Pro	Met	Tyr	Leu	Phe	Leu	Cys	Met
	50					55					60				
Leu	Ala	Ala	Ile	Asp	Leu	Ala	Leu	Ser	Thr	Ser	Thr	Met	Pro	Lys	Ile
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Leu	Ala	Leu	Phe	Trp	Phe	Asp	Ser	Arg	Glu	Ile	Ser	Ile	Glu	Ala	Cys
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Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Ala	Leu	Ser	Ala	Ile	Glu	Ser	Thr
		100						105					110		
Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
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Leu	Arg	His	Ala	Ala	Val	Leu	Asn	Asn	Thr	Val	Thr	Ala	Gln	Ile	Gly
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Leu	Ile	Lys	Arg	Leu	Ala	Phe	Cys	His	Ser	Asn	Val	Leu	Ser	His	Ser
				165					170					175	
Tyr	Cys	Val	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Tyr	Ala	Asp	Thr	Leu
			180					185					190		
Pro	Asn	Val	Val	Tyr	Gly	Leu	Thr	Ala	Ile	Leu	Leu	Val	Met	Gly	Val
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Leu	Gln	Leu	Pro	Ser	Lys	Sér	Glu	Arg	Ala	Lys	Ala	Phe	Gly	Thr	Cys
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Val	Ser	His	Ile	Gly	Val	Val	Leu	Ala	Phe	Tyr	Val	Pro	Leu	Ile	Gly
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Leu	Ser	Val	Val	His	Arg	Phe	Gly	Asn	Ser	Leu	His	Pro	Ile	Val	Arg
			260				265						270		
Val	Val	Met	Gly	Asp	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Ile	Asn	Pro
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Ile	Ile	Tyr	Gly	Ala	Lys	Thr	Lys	Gln	Ile	Arg	Thr	Arg	Val	Leu	Ala
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aaactgggtg	gggaatctcc	attttttcaa	tattattttc	ttctttgttt	tcttgctacg	180
tataattatt	aatatcctga	ctaggttggtg	ggtggagggt	tattactttt	cattttacca	240
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acatctagag	aacatttgcc	aaaggcctaa	gcacagcaaa	ggaaaataaa	cacagaatat	360
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Ser	Tyr	Ile	Phe	Ile	Leu	Gln	Ala	Val	Leu	Gln	Leu	Ser	Ser	Gln	Glu	
			20					25				30				
gcc	cgc	tac	aaa	gca	ttt	ggg	aca	tgt	gtc	tct	cac	ata	ggg	gcc	atc	144
Ala	Arg	Tyr	Lys	Ala	Phe	Gly	Thr	Cys	Val	Ser	His	Ile	Gly	Ala	Ile	
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Leu	Ala	Phe	Tyr	Thr	Pro	Ser	Val	Ile	Ser	Ser	Val	Met	His	Arg	Val	
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Cys Ser Gly Pro Gly Leu Cys * Glu * Met Gly Pro Arg Leu His	
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gtt tag ttc ttt tct tgt att atg aaa aga ata aat gat gtc ctg aag	480
Val * Phe Phe Ser Cys Ile Met Lys Arg Ile Asn Asp Val Leu Lys	
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Leu Arg Lys Lys Lys Lys Lys	
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Ala Arg Cys Ala Val Pro His Val His Ile Leu Leu Ala Asn Phe Tyr	
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85 90 95	
Lys Gln Ile Arg Asp Ser Leu Gly Ser Ile Pro Glu Lys Gly Cys Val	
100 105 110	
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115 120 125	
Ser Gly Pro Gly Leu Cys Glu Met Gly Pro Arg Leu His Val Phe Phe	
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Lys Lys Lys	

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 <210> 26

<211> 22
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 <220>
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 <400> 26
 ctaatacgac tcactatagg gc 22

 <210> 27
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 <220>
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 <400> 27
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 <210> 28
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 <400> 29
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 <210> 31
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<220>
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<210> 35
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<400> 35
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<210> 36
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<400> 36
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<210> 37
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<400> 37
Ala Met Ala Phe Asp Arg Tyr
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<210> 38
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<400> 38
Tyr Val Ala Ile Cys His Pro
1 5

<210> 39
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<400> 39
Lys Ala Phe Gly Thr Cys Val
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21

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21

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